PHD SAMPLE RESUME

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SUMMARY

Bioinformatics PH.D. candidate who has experience in the bioinformatics of public health. Expertise in tool building, molecular subtyping and comparative genomics. Proficient in an array of bioinformatics software packages, operating systems, and programming languages. Experience in leading a team of bioinformaticians to complete many projects in a collaboration with CDC.

EDUCATION

Ph.D. in Bioinformatics, Johns Hopkins University, Baltimore, MD, May 2013
Dissertation Title: Computational Genomics and Molecular Epidemiology of Microbial Pathogens.
M.S. in Bioinformatics, Johns Hopkins University, Baltimore MD, 2008
B.S. in Biology, Emory University, Atlanta GA 2004

RESEARCH EXPERIENCE

Computation Genomics of Neisseria, Advisor: Dr. James Jordan   Jan 2010- Present
- Collaborating with the Meningitis and Vaccine Preventable Diseases Branch (MVPDB) of Centers for Diseases Control and Prevention (CDC) and with the Core Facility of CDC
- Developed a database of genomes called Neisseria Base
- Assembled and annotated new genomes using 454 pyrosequencing data.
- Supervised a team of bioinformatics M.S. and Ph.D. Students
- Compared genomes to discover SNPs and to ascertain their biological relevance to pathogenesis.

Meningococcus Genome Informatics Platform
- Created MGIP as a website
- MGIP has become a standard for multilocus sequence typing (MLST) data analysis, and has also been expanded to encompass other molecular typing data.
- World-renown labs such s the MVPDB lab at CDC and Martin Maiden's lab are in support of MGIP as the standard MLST software instead of STARS, which is the current gold standard.

COMPUTER SKILLS

Computer Languages and Frameworks: Perl, PHP, HTML, JavaScript, CSS, MySQL, BioPerl, BioPHP, SMS (Sequence Manipulation Suite), Prototype, Scriptaculous
Bioinformatics Tools: Phred, Phrap, NCBI toolkit, MAUVE, Clustal, Muscle, Newbler, GBrowse EMBOSS

GRANTS

CDC Grants for Public Health Research Dissertation (1B36GD000075-01) ($37,853). Microbial Genome Informatics Platform: a Computational Resource for Computational Genomics.

AWARDS

CDC Grant for Public Health Improvement Award (June 2010)

PUBLICAITONS

- Kislyuk AO, **Sample LS,** Agrawal S, et. al. "A Computational Genomics Pipeline for Microbial Sequencing Projects."
- Loh Ye, **Sample LS,** et. al. "Comparative Analysis Reveals Signatures of Differentiation Amid Genomic Polymorphism in Lake Malawi Cichlids. "Genome Biology. (2008) 9:R114